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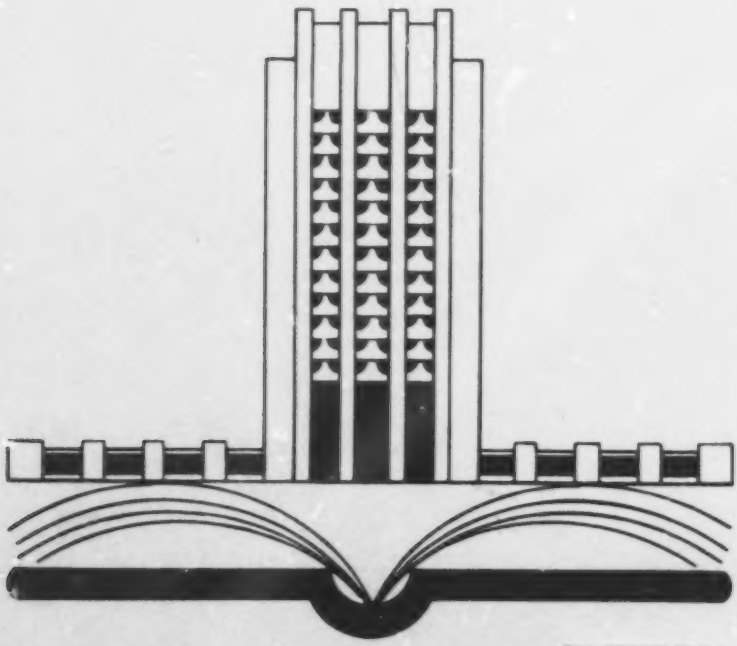

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ALAR, A WIDELY USED GROWTH REGULATOR

SEARCH STRATEGY

SS ALAR OR UDMH OR DAMINOZIDE OR UNSYMMETRICAL()DIMETHYLHYDRAZI?E
OR KYLAR OR B()NINE OR SUCCINIC()ACID()DIMETHYLHYDRAZINE

0001
The active ingredients content of Adonis autumnalis, L. plants as affected by kinetin and Alar-85 treatments.
PPGGD. Abdalla, N.M. ; Solomos, T.-El-Gengaihi, S.E.-Al-Badawy, A.A. Lake Alfred : The Society. Proceedings annual meeting - Plant Growth Regulator Society of America. 1985. (12th). p. 256-260. Includes references. (NAL Call No.: DNAL SB128.P5).

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Adoption of Alar as a growth regulator for seed potatoes (Netherlands). Toepassing van Alar als groeiregulator bij pootaardappelen.
Bus, C.B. ; Schepers, A. Den Haag, Ministerie van Landbouw en Visserij. Bedrijfsontwikkeling. Mar 1981. v. 12 (3). p. 281-284. ill. 8 ref. (NAL Call No.: S11.B43).

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Advancement of nectarine fruit ripening with daminozide and fenoprop (Growth regulators).
Ben-Arie, R. ; Guelfat-Reich, S. St. Joseph, Mich. JournalAmerican Society for Horticultural Science. Jan 1979. v. 104 (1). p. 14-17. ill. 19 ref. (NAL Call No.: 81 S012).

0004
ALAR, a growth regulant for bean plants grown in the greenhouse in autumn and winter for disease evaluation.
Provvidenti, R. Geneva, N.Y., Bean Improvement Cooperative. Annual report of the Bean Improvement Cooperative. 1982. v. 25. p. 32-33. (NAL Call No.: SB327.A185).

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Alar, a widely used growth regulator, 1979-85.
Schneider, K. Beltsville, Md. : The Library. Quick bibliography series - National Agricultural Library (U.S.). Bibliography. Apr 1986. (86-54). 16 p. (NAL Call No.: DNAL aZ5071.N3).

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Alar and Promalin in intensive orchard systems (Growth regulators).
Tukey, L.D. The Hague : International Society for Horticultural Science. Acta horticulturea. Feb 1981. Feb 1981. (114). p. 152-153. (NAL Call No.: 80 AC82).

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Alar biometry in the taxonomy of the species Goniomma hispanicum and G. Paeticum.
INSOA. Lopez, J.L.R. ; Castillo, A.P. Paris : Masson. Insectes sociaux = Social insects. 1984. v. 31 (4). p. 473-475. ill. Includes 3 references. (NAL Call No.: DNAL 421 IN79).

0008
ALAR-treated apples: a potential health threat, especially for children.
Newton Highlands, Mass. : Child Health Alert, Inc. Child health alert. Apr 1986. p. 1-2. ill. (NAL Call No.: DNAL RJ1.C5).

Abstract: A brief overview discusses the potential health risks to infants and children from consuming apples and apple products (applesauce and juice) from apples treated with daminozide (brand name, ALAR). ALAR also contains unsymmetrical dimethylhydrazine (a breakdown product and contaminant of daminozide), both substances of which have been found in apples and apple products and both of which have been shown to cause cancer in experimental animals. Since ALAR has been used on apples for over 20 years and studies to confirm their health risks are underway, suggestions are offered to minimize exposure to children and infants. It is argued that EPA should ask expert scientists to reexamine the best available data and act to remove ALAR from use if concluded to be a hazardous risk.(wz)

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Alar-85 application in super-dense plantation of apple trees (Growth regulators). Aplikace Alaru-85 v superhuste vysadbe jabloni. Czech.
Moravek, Z. Praha : Ustav. Sbornik UVTIZ - Ustav vedeckotechnickych informaci. Zahradnictvi. Mar 1983. v. 10 (1). p. 3-12. ill. Includes references. (NAL Call No.: SB13.U8).

0010
Anwendung und Wirkung von CCC und TIBA auf Obstgewachse und Anwendung und Wirkung von ALAR beim Apfel = Application and effect of CCC and TIBA on fruit plants and application and effect of ALAR on apples / bearbeitet von Gudrun Weiland. -. German.
Weiland, Gudrun. Berlin Universitatsbibliothek der Technischen Universitat, Abteilung Publikationen 1981. German or English -Cover title -Table of contents also in English -Includes index. iv, 34 p. ; 30 cm. --. (NAL Call No.: Z5996.F8A4 no.103).

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Apples after alar.
WEFGA. Moses, L. Willoughby, Ohio : Meister Pub. Co. Western fruit grower. Sept 1987. v. 107 (9). p. 18-19. (NAL Call No.: DNAL 80 G85W).

0012
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HJHSA. Kheshem, S.A. ; Kochan, W.J.-Boe, A.A.-Everson, D.O. Alexandria, Va. : American Society for Horticultural Science. HortScience. June 1988. v. 23 (3). p. 582-584. Includes references. (NAL Call No.: DNAL SB1.H6).

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Calculating dilutions for A-rest, B-nine and Cycocel (Growth retardants for maximum quality in many floriculture crops).
Barrett, J.E. Chicago, Ill. : Florists' Publishing Company. Florists' review. Sept 8, 1983. v. 173 (4475). p. 31-34. (NAL Call No.: 80 W41).

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Carryover residue levels of Alar in apple trees sprayed the preceding spring and summer (Daminozide, foliar spray used in treating physiological problems).
Dozier, W.A. Jr. ; Rymal, K.S.-Knowles, J.W. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama, Agricultural Experiment Station. Summer 1984. v. 31 (2). p. 9. (NAL Call No.: 100 AL1H).

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Changes of sterols and related compounds in Datura stramonium seeds by different plant growth regulators (IAA, kinetin, ethrel and alar).
Diab, M.A. ; Abdel-Rahim, E.A.-Hamama, A.A. Cairo : The Faculty. Research bulletin - Ain Shams University, Faculty of Agriculture. Dec 1981. Dec 1981. (1682). 12 p. Includes 7 references. (NAL Call No.: S539.5.R47).

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Chemical modification of cold hardiness in apple trees in eastern Canada.
CPLSAY. Coleman, W.K. ; Estabrooks, E.N. Ottawa : Agricultural Institute of Canada. Canadian journal of plant science = Revue canadienne de phytotechnie. Oct 1985. v. 65 (4). p. 969-975. Includes references. (NAL Call No.: DNAL 450 C16).

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Chrysanthemum height control by ancymidol, PP333, and EL-500 dependent on medium composition (Growth regulators, pine bark, daminozide).
Barrett, J.E.HJHSA. Alexandria : American Society for Horticultural Science. HortScience. Dec 1982. v. 17 (6). p. 896-897. 12 ref. (NAL Call No.: SB1.H6).

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Comparative evaluation of the effect of retardants XXX and alar on small-leaved tree species (Application of arboricides).
Alekseev, V.A. Arkhangel'sk, Arkhangel'skii lesotekhnicheskii institut. Izvestiia vysshikh uchebnykh zavedenii; lesnoi zhurnal. 1980. 1980. (4). p. 27-30. 6 ref. (NAL Call No.: 99.8 IZ8).

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Comparison of a new triazole retardant paclobutrazol (PP 333) with ancymidol, chlorphonium chloride, daminozide and piproctanyl bromide, on stem exension and inflorescence development in Chrysanthemum morifolium Ramat.
Menhenett, R. Amsterdam : Elsevier Science Publishers. Scientia horticulturae. Dec 1984. v. 24 (3/4). p. 349-358. Includes references. (NAL Call No.: DNAL SB13.S3).

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Control of floral initiation in florists' hydrangea.
JOSHB. Bailey, D.A. ; Weiler, T.C. Alexandria, Va. : The Society. Journal of the American Society for Horticultural Science. Nov 1984. v. 109 (6). p. 785-791. ill. Includes 21 references. (NAL Call No.: DNAL 81 S012).

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Control of peanut foliar diseases and regulation of plant growth with Bravo-Kylar tank mitures (Growth regulators, fungicides).
Smith, D.H. ; Vesely, L.K. College Station : The Station. PR - Texas Agricultural Experiment Station. Mar 1981. Mar 1981. (3864). 2 p. Includes references. (NAL Call No.: 100 T31P).

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Control of postharvest glycoalkaloid formation in potato tubers.
Salunkhe, D.K. ; Wu, M.T. Ames, Iowa, International Association of Milk, Food, and Evironmental Sanitarians. Journal of food protection. June 1979. v. 42 (6). p. 519-525. ill., charts. 42 ref.
Abstract: Light and mechanical injury are the most important environmental factors which stimulate postharvest glycoalkaloid synthesis in potato tubers, resulting in a bitter taste and off-flavor. Partial control light-induced glycoalkaloid formation has been achieved by treating tubers with chemicals such as Ethephon, Alar, Phosphon, Phosphon-S, Amchem 72-A42, Amchem 70-334, Nemagon, Telone, detergents, surfactants, control-atmosphere storage and subatmosphericpressure storage. Complete inhibition of light-induced glycoalkaloid formation can only be obtained by hot wax coating, oil coating, vacuum packaging and anoxia water submersion. Treatment with a sprout inhibitor and gamma-irradiation control wound-induced glycoalkaloid formation. **(NAL Call No.: 44.8 J824)**

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HARAA. Gilliam, C.H. ; Turner, J.L.-Hardy, S.M.-Rymal, K.S.-Shumack, R.L. Auburn, Ala. : The Station. Highlights of agricultural research - Alabama Agricultural Experiment Station. Fall 1986. v. 33 (3). p. 12. ill. (NAL Call No.: DNAL 100 AL1H).

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Czechoslovak experiences with the use of Alar 85 in apple trees (Control of falling off). Nase akusenosti s aplikaciou Alaru - 85 pri jablonisch. Slovak.
Miklos, G. Praha : Ceskoslovenska Akademie Zemedelska. Zahradnictvo. Nov 1983. v. 8 (11). p. 492-494. (NAL Call No.: SB13.Z32).

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Daminozide: a case study of a pesticide controversy.
Campt, D. Washington, D.C. : Office of Public Awareness. EPA Environmental Protection Agency journal. May 1987. v. 13 (4). p. 32-34. ill. (NAL Call No.: DNAL TD171.U5).

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Daminozide affects growth and yield of 'Heritage' red raspberry.
HJHSA. McGregor, G.R. Alexandria, Va. : American Society for Horticultural Science. HortScience. Feb 1987. v. 22 (1). p. 38-40. Includes references. (NAL Call No.: DNAL SB1.H6).

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Daminozide and ethephon effects on growth of red maple and white pine on cleared sites (Acer rubrum, Pinus strobus, herbicides, white-tailed deer, Odocoileus virginianus, digestibility of red maple, Virginia).
See, R.M. ; Foy, C.L. Washington : Society of American Foresters. Forest science. June 1984. v. 30 (2). p. 291-299. ill. Includes references. (NAL Call No.: 99.8 F7632).

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Daminozide and gibberellin effects on floral induction of Citrus latifolia.
Davenport, T.L.HJHSA. Alexandria : American Society for Horticultural Science. HortScience. Dec 1983. v. 18 (6,sec.1). p. 947-949. Includes references. (NAL Call No.: SB1.H6).

0029
Daminozide and unsymmetrical dimethylhydrazine (UDMH) residues in fresh and processed 'Red Delicious" apples (Applesauce).
Rymal, K.S. ; Dozier, W.A. Jr.~Knowles, J.W.~Cosper, R.D.~Reed, R.B. Ames : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. Mar 1984. v. 47 (3). p. 242-244. Includes references. (NAL Call No.: 44.8 J824).

0030
Daminozide and unsymmetrical dimethylhydrazine (UDMH) residues in fresh and processed Red Delicious' apples.
JFPRDR. Rymal, K.S. ; Dozier, W.A. Jr.~Knowles, J.W.~Cosper, R.D.~Reed, R.B. Ames, Iowa : International Association of Milk, Food, and Environmental Sanitarians. Journal of food protection. March 1984. v. 47 (3). p. 242-244. charts. Includes 16 references. (NAL Call No.: DNAL 44.8 J824).
Extract: Daminozide is a growth regulating substance widely used on apples and other fruit crops to affect various fruit and tree characteristics. Daminozide residues were determined in Starkrimson' Red Delicious apples orchard-sprayed at both recommended and excessive rates, at recommended periods before expected harvest, and at several application times closer to harvest than recommended. Analyses were conducted on the whole raw fruit, including the peeling, and on applesauce processed from the peeled and cored fruit, immediately after harvest, and after cold storage periods of 30, 60, and 90 days. Residues in both the fresh and processed fruit were directly proportional to the concentration of daminozide in the foliar sprays, regardless of application date. The highest residues in both fresh and processed apples were in fruit from trees sprayed 14 to 28 days before harvest at all spray concentrations. Residues from all spray concentrations and all application dates were persistent for 90 days at 0 degrees C storage for fresh fruit and at 23 degrees C storage for processed fruit. Only the residues in fruit sprayed with 4 times the recommended level at 2 or 4 weeks before harvest exceeded the U.S. Environmental Protection Agency tolerance level (30 ppm). Residues ranged from less than 2 to 32 ppm. Unsymmetrical dimethylhydrazine (UDMH) levels were directly proportional to the daminozide residues in the applesauce. Average UDMH residues ranged from 0.03 ppm for fruit sprayed with the recommended rate of daminozide to 0.8 ppm for fruit with the highest daminozide residues. (author)

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Daminozide control of globe artichoke flower head atrophy (Growth retardants, malformation, Italy).
Magnifico, V. ; Fortunato, I.M.~Palma, E. de. Alexandria, Va. : American Society for Horticultural Science. HortScience. Oct 1984. v. 19 (5). p. 667-669. ill. Includes 12 references. (NAL Call No.: SB1.H6).

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Ripley, B.D. ; Lougheed, E.C. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Nov/Dec 1979. v. 27 (6).

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Don't forget alar advantages.
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Effect of Alar and CCC on shoot growth and flower bud of sweet cherry cv. Geant d'Hedelfingen frost injuries. Wplyw stosowania Alaru i CCC na wzrost pedow I przemarzanie pakow czeresni odmiany Hedelfinska.
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Effect of Alar and Cycocel on the storage life of Pusa Seedless grapes.
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Effect of alar and urea sprays on flowering behaviour, panicles malformation and productivity of "Hindy Be Sinnara" mango (Egypt).
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Effect of Alar (B9) on maturity, quality and shelf life duration of Egyptian lime (Egypt).
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Effect of alar on the growth and ornamental value of Chrysanthemum indicum. Russian.
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The effect of alar-85 application timing on Daminozide residues in apple and apple products (Growth regulator, German Democratic Republic). Einflusse des Zeitpunktes der Applikation von ALAR-85 auf die Daminozid-Ruckstande in Apfeln und Apfelerzeugnissen. German.
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to one year of age are provided. Instructions are included for preparing homemade baby foods from foods that are served to the rest of the family and for the proper ages at which selected foods should be introduced. The public health controversy surrounding the treatment of apple products with the chemical, daminozide, and resulting cancer risks for infants and children are explored.(aje)

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